

MAURIZIO ZANETTI, M. D.
CURRICULUM VITAE

Current Status:

Home Address: 6112 La Jolla Hermosa
La Jolla, California 92037

Business Address: University of California, San Diego
Department of Medicine and Cancer Center
Immunology Group
9500 Gilman Drive, 0063
La Jolla, CA 92093-0063
Tel: (619) 534-7217
Fax: (619) 534-5792

Current Position: Professor
Department of Medicine
Member, Cancer Center
University of California, San Diego

Personal Statistics:

Date of Birth: July 11, 1949
Place of Birth: Conegliano Veneto, Treviso, Italy
Marital Status: Married
Resident Alien
Registration Card: # A23441359

Education:

1968 Lyceum Marcantonio Flaminio of Vittorio Veneto, Treviso, Italy,
B.A., (Classical Studies)

1974 University of Padova Medical School, Italy, M.D. degree, "summa
cum laude"

1977 University of Padova Medical School, Italy, Board in Nephrology

Professional Record:

1974 House Physician, Internal Medicine Department, University of
Padova Medical School, Italy

1975 Assistant Professor, Internal Medicine Department, University of
Padova Medical School, Italy

1976 Scholarship of "Centre International des Etudiants et des Stagiaires"
at the Service of Nephrology (Professor J. Hamburger) Hopital
Necker, Paris, France

1977	Scholarship of the National Institute of Health and Medical Research of France at the Service of Nephrology (Professor J. Bariety) Hopital Broussais, Paris, France
1978	Scholarship of the "Fondation pour la Recherche" of France, at the Center for Research in Kidney Pathology and Immunopathology, (Prof. J. Bariety) Hospital Broussais, Paris, France
1979-1980	NIH Postdoctoral Fellow, Department of Pathology (Dr. P.A. Ward), University of Connecticut Health Center, Farmington, Connecticut
1980-1982	NIH Postdoctoral Fellow, Department of Immunopathology (Dr. C.B. Wilson), Scripps Clinic and Research Foundation, La Jolla, California
1982-1987	Assistant Member, Division of Immunology, Medical Biology Institute, La Jolla, California
1982-	Career Scientist of INSERM (National Institute of Medical Research) of France (on leave of absence without salary)
1987-1993	Associate Professor, Department of Medicine, University of California, San Diego, California
1991-Present	Member, UCSD Cancer Center
1993-Present	Professor, Department of Medicine, University of California, San Diego, California
1994-Present	Member, UCSD Center for AIDS Research

Honorary and Professional Organizations:

Associate Editor, *The Journal of Immunology*
 Associate Editor, *Cellular Immunology*
 Member, American Association of Immunologists
 Member, American Society for Clinical Investigation
 Member, Clinical Immunology Society
 Member, Societe' Francaise d'Immunologie
 Member, Societa' Italiana di Immunologia (Gruppo di Cooperazione)
 Member, Societa' di Scienze Mediche di Conegliano, Vittorio Veneto e Quartier del Piave
 Member, AIDS Vaccine Research and Development Advisory Committee (State of California-Department of Health Services)
 Scholar, Leukemia Society of America, Inc. 1984-1989.
 Block Chair in the Program Committee, American Association of Immunology

Meetings and Workshops.

Invited speaker at the advanced course on "Cellular Basis of Idiotype", Mount Sinai School of Medicine (New York, NY, July 1981). Title of presentation: "Idiotypy of autoantibodies to thyroglobulin".

Invited participant to "Psychoneuroimmunology Conference", organized by the McArthur Foundation (Cambridge, Mass., September 1982).

Speaker at the meeting of the New York Academy of Sciences "International Conference on Immune Networks" (New York, NY, December 1982). Title of presentation: "Antiidiotypic antibodies and autoantibodies".

Invited speaker at the mini-symposium on "Parallel Sets and Internal Image of Antigen within Idiotypic System" at the 67th FASEB meeting (Chicago, IL, April 1983). Title of the presentation: "Identification of a regulatory idioype in the immune response to thyroglobulin in BALB/c mice".

Invited speaker at the 1984 ORTHO-UCLA symposium on "Regulation of the Immune System", March 24, 1984, Park City, Utah. Title of presentation, "Theoretical and practical aspects of activation of self-reactivity, by anti-idiotypy".

Invited speaker at the symposium on "Strategies for Vaccine Development and Applications", The Salk Institute (La Jolla, CA, July 1985). Title of presentation, "Idiotypy Vaccines".

Invited teacher at the EMBO Intensive Lecture Courses in Basic Immunology, September 16-29, 1985, Pavia, Italy

Invited speaker at the "International Conference on Idiotypes, "October 20-23, 1985, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma. Title of presentation, "Modulation of Autoimmunity by Anti-idiotypes."

Invited speaker at the mini-symposium "Idiotypes and Anti-idiotypes" sponsored by the Council for Tobacco Research - USA, Inc., (New York, N.Y., April 1986). Title of presentation, "Idiotypy in the Regulation of Self Responses."

Organizer of the International Conference "Idiotypes and Diseases" (Venezia, Italy, May 7-9, 1986).

Invited speaker at the First Annual Conference of Clinical Immunology and the Charter Meeting of the Clinical Immunology Society (Baltimore, MD, October 10-12, 1986). Title of presentation "Immunological Mechanisms in Autoimmunity"

Invited speaker at the Eighth Immunology Meeting (Zagreb, Yugoslavia, August 30 - September 5, 1987). Title of presentation "Autoantibody V Regions, B Cell Repertoire and Idiotypy Regulation"

Invited speaker at the Third Virology/Immunology Symposium: "Update 87 Idiotypy Networks and Immune Regulation II: Autoimmunity, Cancer, Receptors and Vaccines" (San Antonio, Texas, November 18-20, 1987). Title of presentation "Autoantibody Idiotype and Neonatal B Cell Repertoire"

Invited speaker at the 19th Course on Advances in Nephrology and Dialysis (Milano, Italy, December 5-7, 1987) Title of presentation "Anti-idiotypic immunity. Considerations on the Immunology of Kidney Diseases."

Invited speaker at the UCLA symposium "Idiotypic, Molecular Mimicry and Disease" (Los Angeles, CA, January 29, 1988). Title of presentation "On the Nature of Regulation of Autoimmunity".

Invited speaker at the International Symposium "Molecular Aspects of Autoimmunity" (L'Estrel, Quebec, Canada, October 30-November 2, 1988).

Invited speaker at the American College of Clinical Pharmacology, 9th Frontiers in Clinical Pharmacology Symposium, Immunopharmacology: A Frontier for New Therapeutic Discoveries, San Diego, CA, February 23-24, 1989; Title of presentation: "Vaccines - Past Successes and Future Promises".

Invited speaker at the Biochemical Immunology Group Meeting of the British Society of Immunology (London, March 31, 1989) Title of presentation "Genes, Idiotypes and Molecular Recognition by Autoantibodies".

Invited speaker at the International Conference "Idiotypic Networks in Biology and Medicine", Gennep, the Netherlands, April 17-20, 1989. Title of presentation "Self-reactivity and Immune Regulation. Ontogeny and Structure".

Invited speaker at the 39th Annual Meeting of the Canadian Society of Microbiologists, Laval, Canada, June 11-15, 1989. Title of presentation "Immunology of New Generation Vaccines".

Invited speaker at the UCLA Immunology Forum (Los Angeles, CA, September 11, 1989). Title of presentation "Idiotypic mimicry: Myth or reality?".

Invited speaker at the Mini-symposium "Cellular and Molecular mechanisms of Autoimmunity" (Mount Sinai Medical School, New York, N. Y., September 28, 1989). Title of presentation "The amino terminal of human CD4 has a binding site for immunoglobulins. Implication for autoimmunity".

Organizer of the Second International Conference "Idiotypes and Diseases" (Passariano, Italy, September 17-19, 1990). Title of the presentation: "Idiotypic mimicry by antibody engineering of the complementarity-determining regions".

Director of a two-day course on "Advances in Antibody and Receptor Application and Technology" sponsored by EEC Action Program for Education and Training for Technology (Milano, Italy, September 22-23, 1990).

Invited speaker at the Keystone Symposia on Molecular and Cellular Biology "Self Reactivity and its Regulation" (Keystone, Colorado, January 17-24, 1991). Title of presentation "Idiotypic mimicry and immune function".

Chairperson and speaker of the Mini-symposium "Engineered antibodies for therapeutic purposes" at the 75th annual meeting of the American Association of Immunologists (Atlanta, Georgia, April 21-25, 1991). Title of presentation "Immunogenicity of engineered antibodies".

Invited teacher at the NATO Intensive Lecture Course in "Immunology of T Cells" (Capo Caccia, Sardegna, Italy, September 16-26, 1991).

Speaker at the "International Conference on Cellular and Molecular Aspects of Self-reactivity and Autoimmune Diseases" (Taormina, Italy, June 7-12, 1992). Title of presentation " Use of antigenized antibodies in autoimmune diseases".

Invited teacher at the International Course in Immunology "New trends in Basic and Clinical Immunology: Self Recognition and Autoimmunity" organized by the International Union of Immunological Societies (Timisoara, Romania, June 16-20, 1992). Title of lecture: "Immune network and autoimmunity".

Invited speaker at the Third International Conference "Idiotypes and Disease", Oslo, Norway (August 12-15, 1992). Title of presentation: "Structure/function of engineered idiotypes".

Invited speaker at The Symposium "Antibodies" (J. Banchereau and J.D. Capra Organizers) held at the Laboratories for Immunological Research, Shering-Plough (Dardilly, France, October 22-23, 1992). Title of presentation: "Antigenized antibodies: Ligand and antigen function".

Chairperson and speaker of the Symposium "Engineered antibodies: Medical applications" at the 77th annual meeting of the American Association of Immunologists (Denver, CO, May 21-25, 1993). Title of presentation: "Antigenized antibodies and immune function".

Invited speaker for the "Lettura Magistrale" at the XXI Convegno Nazionale of Gruppo di Cooperazione in Immunologia (Italian Society of Immunology). (Viterbo, Italy, June 16-19, 1993). Title of the lecture: "Antigenicity and immunogenicity of immunoglobulins: from the idiotype network to engineered idiotypes".

Invited Speaker at the Symposium on "New Strategies in Immunotherapy and Vaccinology" Parma (Italy) September 28, 1993. Title of presentation: "Antigenized antibodies and cells".

Guest Professor at the University of Shanghai Medical School and Chinese Academy of Science (Shanghai, China) March 27-April 2, 1994.

Chairperson and Invited speaker at the Fourth International Conference "Idiotypes and Disease", Maui, Hawaii (June 20-25, 1994). Title of presentation: "Antigenized antibodies and antigenized cells".

Chairperson and Invited speaker at the Fifth International Conference "Idiotypes and Disease", Toulouse, France (September 17-20, 1997). Title of presentation: "Idiotypic responses by immunization with immunoglobulin genes".

Invited participant to the International Discussion Workshop on "Autoimmunity: Arthritis, Diabetes, and EAE/MS", Genova, Italy (September 20-24, 1997).

Invited participant to the International Workshop on "Molecular Virology and Immunology", Shanghai, China. November 6-10, 1997. Title of lecture: "Vaccination by somatic transgenesis".

Invited plenary lecture speaker at the XXXV Congress of the European Renal Association, Rimini, Italy (June 6-9, 1998). Title of lecture: "Potential of vaccination in renal diseases".

Invited plenary lecture speaker at the Conference "Pediatric Immunology 1998" organized by the Accademia Nazionale di Medicina (Santa Margherita Ligure, September 17-19, 1998). Title of lecture: "New experimental approaches to vaccination".

Invited speaker at the International Workshop on Human Genome (Valencia, Spain, October 19-21, 1998). Title of lecture: "Vaccinology, vaccination and DNA".

Invited speaker at the 4th Conference "Genetic Vaccine and Immunotherapeutic Strategies" (Washington DC, October 25-27, 1998). Title of lecture: "Humoral and cellular immunity by B-cell somatic transgenesis".

Invited speaker at the Keystone Symposium "DNA Vaccines: Immune responses, mechanisms, and Manipulating Antigen Processing" (Snowbird, Utah, April 12-17, 1999). Title of lecture: "Antigen Presentation and B-cell somatic transgenesis".

Invited speaker at the VIIth meeting of The Henry Kunkel Society/VIth International Workshop on Autoantibodies & Autoimmunity/VIth International Conference "Idiotypes and Disease", Oslo (Norway) (June 24-28, 1999). Title of lecture: "Regulation of T cell immunity by somatic transgene immunization".

Invited speaker to the Round Table entitled "La Facolta' Medica tra Diadattica, Ricerca e Servizio alla Comunita'" during the symposium "Questa e' Medicina". University of Padova Medical School. Padova (Italy), April 8, 2000.

Ernst Huang-Pharmingen lectureship in Immunology. Oklahoma Medical Research Foundation, November 2, 2000. Title of lecture: "CD4 and CD8 T cells in immunity against cancer".

Chair of workshop entitled "Immunoregulation by vaccination" at the first meeting of the Federation of Clinical Immunology Societies (FOCIS), Boston, May 4-7, 2001.

Books Edited

Idiotypes and Diseases. M. Zanetti, C.A. Bona and F. Celada, Eds.. S. Karger, Basel. (Switzerland), 1987.

The Molecular Pathology of Autoimmune Diseases. C.A. Bona, K.A. Siminovitch, M. Zanetti and A.N. Theofilopoulos, Eds.. Hardwood Academic Publishers, Chur (Switzerland), 1993.

Antibody Engineering: Medical Applications. M. Zanetti Ed.. Int. Rev. Immunol. Vol. 10, No. 2-3. Hardwood Academic Publishers, Chur (Switzerland), 1993.

Book Series Edited

The Antibodies. Volumes 1-6. M. Zanetti and J.D. Capra, Eds.. Hardwood Academic Publishers, Chur (Switzerland), 1993-Present.

BIBLIOGRAPHY

1. Carretti, N., Fagiolo, U., **Zanetti, M.** and Chiaramonte, P. Association of anti-HLA antibodies with toxemia in pregnancy. In: Immunology in Obstetrics and Gynecology. A. Centaro and N. Carretti, editors. Excerpta Medica, American Elsevier, 1974, p. 221.
2. **Zanetti, M.** La tecnica degli anticorpi fluorescenti nello studio nefropatie glomerulari. Thesis for the Degree of Doctor of Medicine (University of Padova), 1974.
3. Fagiolo, U., **Zanetti, M.**, Bocci, C., Farrari, S., Romagnoli, G.F. and Pasini, C., L'epatite virale HBAG+ nei centri dialisi: studio epidemiologico in 247 pazienti. G. Clin. Med. 56:200, 1975.
4. Fagiolo, U., **Zanetti, M.**, Meani, A. and Campanacci, L. Nefropatie glomerulari oligosintomatiche. Studio clinico, istologico ed immunologico. Riv. Osp. 8:261, 1976.
5. Droz, D., **Zanetti, M.**, Noel, L.H. and Leibowitch, J. Dense deposits disease. Nephron 19:1, 1977.
6. Favaro, S., Conventi, L., Baggio, B., Antonello, A., **Zanetti, M.**, Zanon, G.F., Picchi, A., Fagiolo, U. and Borsatti, A. Antibodies coated bacteria in the urinary sediment of rats with experimental pyelonephritis. Nephron 21:165, 1978.
7. **Zanetti, M.** La glomerulonefrite a depositi mesangiali de IgA. Min. Med. 69:2487, 1978.
8. **Zanetti, M.**, Noel, L.H., Barbanel, C. and Droz, D. Biopsies renales iteratives chez des malades atteints de glomerulonephrite extramembraneuse. J. Urol. Nephrol. 84:355, 1978.
9. Barbanel, C., Noel, L.H., **Zanetti, M.**, Droz, D., Brivet, F. and Crosnier, J. Histoire naturelle des glomerulonephrites extramembraneuses. Ann. Med. Interne. 129:423, 1978.
10. Noel, L.H., **Zanetti, M.**, Droz, D. and Barbanel, C. Long term prognosis of idiopathic membranous glomerulonephritis. Am. J. Med. 66:82, 1979.
11. Bariety, J., Oriol, R., Hinglais, N., **Zanetti, M.**, Bretton, R., Dalix, A.M. and Mandet, C. Distribution of blood group antigen A in normal and pathologic human kidneys. Kidney Int. 17:820, 1980.
12. **Zanetti, M.** and Druet, P. Passive Heymann nephritis as a model of immune glomerulonephritis mediated by antibodies to immunoglobulins. Clin. Exp. Immunol. 41:189, 1980.
13. **Zanetti, M.**, Bellon, B., Verroust, P. and Druet, P. A search for circulating immune complexes like material during the course of autoimmune complex glomerulonephritis in Lewis and Brown Norway rats. Clin. Exp. Immunol. 42:86, 1980.
14. **Zanetti, M.**, Mandet, C., Duboust, A., Bedrossian, J. and Bariety, J. Demonstration of a passive Heymann Nephritis-like mechanism in a human kidney transplant. Clin. Nephrol. 15:267, 1981.
15. **Zanetti, M.** and Bigazzi, P.E. Anti-idiotypic immunity and autoimmunity. I. In vitro and in vivo effects of anti-idiotypic antibodies to spontaneously occurring autoantibodies to rat thyroglobulin. Eur. J. Immunol. 11: 187, 1981.

16. Fischman, A.S., Abeles, M., **Zanetti, M.**, Weinstein, A. and Rothfield, N.F. The coexistence of rheumatoid arthritis and systemic lupus erythematosus: A case report and review of literature. J. Rheumatol. 8:405, 1981.
17. Kunkel, S.L., **Zanetti, M.** and Sapin, C. Suppression of nephrotoxic serum nephritis in rats by prostaglandin E₁. Am. J. Pathol. 108:240, 1982.
18. Wilson, C.B., Cole, E.H., **Zanetti, M.** and Mampaso, F.M. Renal Disease. In Basic and Clinical Immunology, Fourth Edition. H.H. Fudenberg, D.P. Stites, J.L. Coldwell, J.V. Wells, Eds. Lange, Los Altos, California, 1982, p.557.
19. Quaranta, V., **Zanetti, M.** and Reisfeld, R.A. A recurrent idiotypic on monoclonal anti-human Ia antibodies. J. Exp. Med. 156:1551, 1982.
20. **Zanetti, M.**, Barton, R.W. and Bigazzi, P.E. Anti-idiotypic immunity and autoimmunity. II. Idiotypic determinants of autoantibodies and lymphocytes in spontaneous and experimentally induced autoimmune thyroiditis. Cell. Immunol. 75:292, 1983.
21. **Zanetti, M.** and Wilson, C.B. Characterization of anti-tubular basement membrane antibodies in rats. J. Immunol. 130:2173, 1983.
22. **Zanetti, M.**, Mampaso, F. and Wilson, C.B. Anti-idiotypic as a probe in the analysis of autoimmune tubulointerstitial nephritis in the Brown Norway rat. J. Immunol. 131:1268, 1983.
23. **Zanetti, M.**, De Baets, M. and Rogers, J. High degree of idiotypic cross-reactivity among murine monoclonal antibodies to thyroglobulin. J. Immunol. 131:2452, 1983.
24. **Zanetti, M.** and Wilson, C.B. Participation of auto-anti-idiotypes in immune complex glomerulonephritis in rabbits. J. Immunol. 131:2781, 1983.
25. **Zanetti, M.** Anti-idiotypic antibodies and autoantibodies. In Immune Networks, (Ann. N.Y. Acad. Sci.). C.A. Bona, H. Kohler, Eds. The New York Academy of Sciences, New York. 418:363, 1983.
26. **Zanetti, M.**, Altman, A., Evans, K. and Rogers, J. Autoreactive rat T cell lines: Establishment and cellular characteristics. Cell Immunol. 84:341, 1984.
27. **Zanetti, M.** and Takami, T. Mesangial immune deposits induced in rats by antibodies to fibronectin. Clin. Immunol. Immunopathol 31:353, 1984.
28. **Zanetti, M.**, Rogers, J. and Katz, D.H. Induction of autoantibodies to thyroglobulin by anti-idiotypic antibodies. J. Immunol. 133:240, 1984.
29. **Zanetti, M.**, Rogers, J. and Katz, D.H. Induction of autoreactivity by anti-idiotypic antibodies. In Regulation of the Immune System. H. Cantor, L. Chess and E. Sercarz, Eds. Alan R. Liss, Inc. New York. 1984, p. 893.
30. del Guercio, P., **Zanetti, M.**, del Guercio, M.-F. and Katz, D.H. B lymphocyte regulation of the immune system. II. Inhibition of Fc receptor expression on lymphocytes by BEF, a lymphokine of B cell origin. J. Immunol. 134:3926, 1985.

31. **Zanetti, M.,** Liu, F.-T., Rogers, J. and Katz, D.H. Heavy and light chains of a mouse monoclonal autoantibody express the same idiotype. J. Immunol. 135:1245, 1985.
32. **Zanetti, M.** and Katz, D.H. Self recognition, autoimmunity and internal images. In Current Topics in Microbiology and immunology. Volume 119. H. Koprowski and F. Melchers, Eds., Springer-Verlag, Heidelberg. 1985, p. 112.
33. **Zanetti, M.** The idiotype network in autoimmune processes. Immunology Today 6:299, 1985.
34. **Zanetti, M.** Idiotype network and its relevance to autoimmune diseases. Functional considerations. In: Concepts in Immunopathology. Vol. 3: Immunoregulation and Autoimmunity. J.M. Cruse and R.E. Lewis, Jr., Eds., Karger, Basel/New York. 1986, p. 253.
35. **Zanetti, M.** Idiotypic regulation of autoantibody production. CRC Crit. Rev. Immunol. 6:151, 1986.
36. **Zanetti, M.,** and Wilson, C.B. A role for anti-idiotypic antibodies in immunologically mediated nephritis. Am. J. Kidney Diseases 6:445, 1986.
37. del Guercio, P., del Guercio, M.-F., **Zanetti, M.** and Katz, D.H. B-lymphocyte regulation of the immune system. III. Preparation and characterization of rabbit antibodies that inhibit the biological activity of the lymphokine, B-cell-derived enhancing factor (BEF). Cell. Immunol. 98:333, 1986.
38. Wilson, C.B., Bannister, K.M., Mampaso, F.M., Ulich, T.R. and **Zanetti, M.** Anti-idiotypic antibodies in glomerulonephritis and in tubulointerstitial nephritis models of immune renal injury. In: Proceedings of the Second International Milano Meeting of Nephrology, Martinus Nijhoff Publishers, The Hague 1986, p. 67.
39. Glotz, D. and **Zanetti, M.** Detection of a regulatory idiotype on a neonatal spontaneous self-reactive hybridoma antibody. J. Immunol. 137:223, 1986.
40. Monestier, M., Manheimer-Lory, A., Bellon, B., Painter, C., Dang, H., Talal, N., **Zanetti, M.**, Schwartz, R., Pisetsky, D., Kuppers, R., Rose, N., Brochier, J., Klareskog, L., Holmdahl, R., Erlanger, B., Alt, F. and Bona, C. Shared idiotypes and restricted V_H genes characterize murine autoantibodies of various specificity's. J. Clin. Invest. 78:753, 1986.
41. **Zanetti, M.** New concepts in autoimmunity. Immunological Invest. 15:287, 1986.
42. **Zanetti, M.,** Glotz, D. and Rogers, J. A regulatory idiotype on autoantibodies. In Idiotypes, J.D. Capra and M. Reichlin, editors. Academic Press, 1986, p. 59.
43. **Zanetti, M.,** Glotz, D. and Rogers, J. Perturbation of the autoimmune network. II. Immunization with isologous idiotype induces auto-anti-idiotypic antibodies and suppresses the antibody response elicited by antigen. A serologic and cellular analysis. J. Immunol. 137:3140, 1986.
44. **Zanetti, M.,** Sercarz, E. and Salk, J. Immunology of the new generation vaccines. Immunol. Today 8:18, 1987.

45. **Zanetti, M.,** Glotz, D. and Rogers, J. Cross-reacting and regulatory idiotypes on autoantibodies. Effect on regulation of autoimmunity. In Elicitation and Use of Anti-Idiotypic Antibodies and Their Biological Application, Vol. II, C. Bona Ed., CRC, Boca Raton, FL, 1987, p. 111.
46. **Zanetti, M.,** Glotz, D., Meek, K., Hasemann, C. and Rogers, J. Autoimmune network. In Idiotypes and Diseases. M. Zanetti, C.A. Bona and F. Celada, Eds. S. Karger, Basel. 1987.
47. **Zanetti, M.** and Rogers, J. Independent expression of a regulatory idotype on the heavy and light chains. A further immunochemical analysis using anti-heavy and anti-light chain antibodies. J. Immunol. 139:1965, 1987.
48. del Guercio, P. and **Zanetti, M.** The CD4 molecule, the human immunodeficiency virus (HIV) and antiidiotypic antibodies. Immunol. Today 8:204, 1987.
49. **Zanetti, M.,** Glotz, D., Sollazzo, M. Idiotypic regulation of self responses, autoantibody V regions and neonatal B cell repertoire. Immunology Letters 16:277, 1987.
50. Zuberi, R., Katz, D.H. and **Zanetti, M.** Spontaneous development of IL-1-like antibodies in rabbits immunized with murine IL-1. J. Autoimmunity 1:31, 1988.
51. **Zanetti, M.,** Rogers, J. and Katz, D.H. Perturbation of the autoimmune network. I. Immunization with heterologous anti-idiotypic antibodies prior to challenge with antigen induces quantitative variations in the autoantibody response. Autoimmunity 1:23, 1988.
52. Zuberi, R., **Zanetti, M.** and Katz, D.H. Antigenic differences between natural and recombinant murine IL-1. Lymphokine Res 7:1, 1988.
53. Glotz, D., Sollazzo, M., Riley, S., Rogers, J. and **Zanetti, M.** The B cell repertoire in newborn normal mice, isotype, V_H genes and antigen binding analysis of one day old BALB/c hybridomas. J. Immunol. 141:383, 1988.
54. **Zanetti, M.,** and Glotz, D. Consideration on thymus-dependent and -independent antigens in acquired and natural immunity. Ann. Immunol. Inst. Pasteur 139:192, 1988.
55. Sollazzo, M., Judd, S., and **Zanetti, M.** Simple and efficient electroporation of myeloma cells. Focus 10:64, 1988.
56. **Zanetti, M.** Self-immunity and the autoimmune network. A molecular perspective to ontogeny and regulation of the immune system. Ann. Immunol. Inst. Pasteur 139:619, 1988.
57. **Zanetti, M.** Anti-idiotypic immunity. Considerations on the immunology of kidney diseases. In Proceedings of the 19th Course on Advances in Nephrology and Dialysis, Karger, Basel 1988, vol. 69, p. 44,.
58. **Zanetti, M.** Idiotypic-anti-idiotypic interactions in autoimmunity. J. Immunol. Immunopharmacol. 8:269, 1988.
59. Salk, J. and **Zanetti, M.** Next step in the evolution of vaccinology. In: Progress in Vaccinology, Vol 2, G.P. Talwar, Ed., Springer-Verlag, New York. 1989, p. 451.

60. Glotz, D. and **Zanetti, M.** A natural neonatal autoantibody to the T200 antigen. Immunochemical and functional analysis. J. Immunol. 142:439, 1989.
61. Sollazzo, M., Glotz, D., Castiglia, D. and **Zanetti, M.** Autoantibody idiotype and neonatal B cell repertoire. In Viral Immunology 2: 263, 1989
62. Sollazzo, M., Hasemann, C.A., Meek, K.D., Glotz, D., Capra, J.D. and **Zanetti, M.** Molecular characterization of the V_H region of murine autoantibodies from neonatal and adult BALB/c mice. Eur. J. Immunol. 19:453, 1989.
63. Molinaro, G., Glotz, D. and **Zanetti, M.** Early ontogeny of rheumatoid factor antibodies. Characterization of a murine neonatal hybridoma autoantibody to IgG1 in BALB/c mice. Autoimmunity 4:9, 1989.
64. Sollazzo, M., Castiglia, D., Billetta, R., and **Zanetti, M.** Characterization of a regulatory idiotope by antibody engineering. In Molecular Aspects of Autoimmunity, N. Farid and C.A. Bona (Eds.), Academic Press 1990, p 129.
65. Sollazzo, M., Billetta, R., and **Zanetti, M.** Engineered antibody: Present and future. In: Year in Immunology, J.M. Cruse and R.E. Lewis (Eds.), Karger, Basel, 6:162, 1990.
66. **Zanetti, M.**, and Sollazzo, M. Self immunity and idiootype regulation: Ontogeny and structure. In: Idiotype Networks in Biology and Medicine, A. Osterhaus and F. Hytdehaag (Eds.), Elsevier Science Publishers B.V., Amsterdam 1990, p 81.
67. **Zanetti, M.**, Dovezenski, N., Lenert, P., and Sollazzo, M. Idiotype in autoimmunity. In: Idiotypic Network and Disease, J. Cerny and J. Hiernaux (Eds.), ASM, 1990, p. 175.
68. Lenert, P., Kroon, D., Spiegelberg, H., Golub, E., and **Zanetti, M.** Human CD4 binds immunoglobulins. Science 248:1639, 1990.
69. Sollazzo, M., Castiglia, D., Billetta, R., Tramontano, A., and **Zanetti, M.** Structural definition of an idiotypic determinant by antibody engineering. Protein Engng. 3:531, 1990.
70. Sollazzo, M., Billetta, R., and **Zanetti, M.** Expression of an exogenous peptide epitope in a hypervariable region of a genetically-engineered immunoglobulin. Considerations on antibody and peptide folding. Protein Engng. 4:215, 1990.
71. Hildebrandt, S., Weiner, E.S., Earnshaw, W.C., **Zanetti, M.**, and Rothfield, N.F. Idiotypic analysis of human anticentromere autoantibodies. Autoimmunity 9:131, 1991.
72. Altman, A. and **Zanetti, M.** Synthetic vaccines. In: Encyclopedia of Human Biology, Academic Press 1991, p. 745.
73. **Zanetti, M.**, Billetta, R., and Sollazzo, M. Idiotype vaccines by antibody engineering. Structural and functional considerations. In: Anti-Idiotypic Vaccines, P.A. Cazenave (Ed.), Springer-Verlag, New York 1991, p. 123.
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